

**Weston Solutions, Inc.**

1435 Garrison St. Suite 100  
 Lakewood, CO 80215  
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**WEEKLY REPORT**

Contract No./TDD	Project Title / Location	Date of Report	Report No.
EP-S8-13-01 0001/1502-04 & 1408-01	<b>EPA Region 8 Start IV Contract</b> <b>Red and Bonita Removal/Gold King Mine</b>	8/1/2015	3

**START PERSONNEL**

Position	Name	E-Mail Address	Phone No.
Project Manager/Field Lead	Elliott Petri	<a href="mailto:Elliott.Petri@westonsolutions.com">Elliott.Petri@westonsolutions.com</a>	719-216-2754
Additional START	Megan Oller	<a href="mailto:Megan.Oller@westonsolutions.com">Megan.Oller@westonsolutions.com</a>	720-635-6826
Additional START	Jan Christner	<a href="mailto:Jan.Christner@westonsolutions.com">Jan.Christner@westonsolutions.com</a>	505-269-1925

**WEATHER CONDITIONS**

27-Jul	28-Jul	29-Jul	30-Jul	31-Jul	1-Aug
AM: 50 - Clear PM: 70 - Cloudy	AM: 45 - Clear PM: 70 - Cloudy	AM: 42 - Clear PM: 69 - Clear	AM: 45 - Clear PM: 69 - Cloudy/Rain	AM: 45 - Rainy PM: 65 - Rainy	AM: 45 - Cloudy PM: 65 - Cloud/Rain

**PRP CONTRACTORS/LEAD PERSONNEL/START FIELD STAFF**

Name	Company	Trade / Work Performed
Elliott Petri	Weston Solutions/START	Water Treatment and Technical Assistance
Megan Oller	Weston Solutions/START	Water Treatment and Technical Assistance
Kristin Brown	DRMS	Site Visits and Documentation
Matt Francis	ERRS	Site Construction and Preparations
4 - Workers/Operators	ERRS	Site Construction and Preparations
Will Beach	MES	In Mine Work Supervisor
2 - Workers	MES	In Mine Cleaning and Construction

**HEALTH & SAFETY**

*Back of the bulkhead loaction, minimal sludge is flowing from workings further back in the mine.*

- MES attempted to install reinforcement to raise the entrance cap/ceiling, conditions were not as anticipated so signage and illumination were installed to warn workers of the risk.
- Vehicles moving totes of caustic to the treatment area will be escorted from Gladstone storage area to treatment area to ensure safety.
- During non-work days ERRS loader will be parked across access to treatment area and caustic totes will be tarped.

**RED AND BONITA IN-MINE WORK**

- MES finished initial mine solids clean out and as of 7/29, washing of the walls at the bulkhead location has been conducted.
  - MES installed the injection piping through the bulkhead section.
- NOTE: Untill the coffer dam is in place a minimal amout of solids is being transported through the work area from further back in the mine workings. Once the coffer dam is in place a final clean will be needed prior to inspection/acceptance of the cleaning.

**RED AND BONITA SITE WORK**

- Water Treatment ponds:
  - + Installed a baffle in pond 2 at the half way mark to increase settling time and redirect flow away from spillway into pond 3.
  - + Installed a baffle in pond 3 to redirect the water to the far corner of pond 3.
  - + Reinforcement posts were installed behind the hay bale wall to support the water load pressing against it.

**WATER TREATMENT**

- A Baffle was added in pond 2 to improve retention/settling time in pond 2.
- Approximately 545 gallons of caustic added; 1240 gallons of caustic remaining (note previous estimates did not include the 2 each 55 gallon drums of NaOH on-site.).
- Approximately 2 bags of Brennfloc used; 8 bags of Brennfloc remaining.
- Brennfloc addition rate is 1-2 turn/min of the hand seed broadcaster.

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### WATER SAMPLING

- Mine water pH prior to mine entry varies from 6.2 - 5.8 and turbidity from 22 - 94 NTU.
- Effluent pH varies from 6.5 - 8.6 and turbidity from 29.6 - 32 NTU.

### GOLD KING MINE WORK

- Installed the 60 inch pipe as a sump basin, concreted the bottom to prevent seepage, and connected in the drainage pipe for outflow to the edge of the tailings dump.
- Began building the filter bag manifold if needed for treatment of solids from the mine discharge water.

### GENERAL SITE WORK/MISCELLANEOUS ACTIVITIES

- Steve Way will be off-site until the week of 8/10
- Matt Francis remobilized on 7/27
- Kristin Brown visited the site for DRMS on 7/27, 7/28, 7/29, 7/30 and 7/31.
- Megan Oller Demobilized on 8/1.
- MES was down one employee until 7/31 when a new person joined the team.

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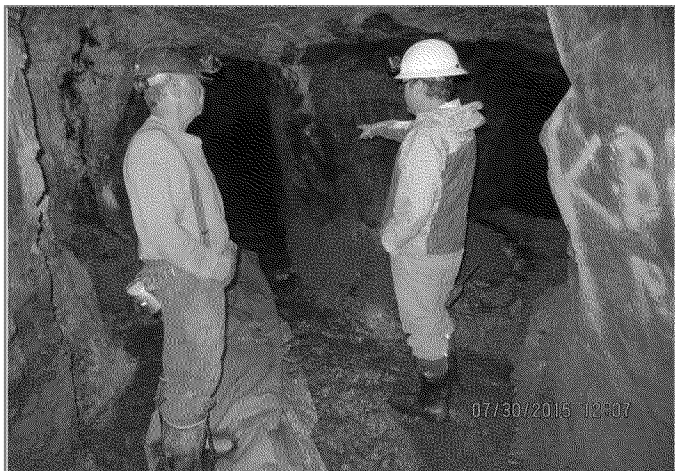
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## DAILY PRODUCTION & QUALITY CONTROL REPORT

Contract No./TDD	Project Title / Location	Day of Report	Report No.
EP-S8-13-01 0001/1502-04 & 1408-01	EPA Region 8 Start IV Contract Red and Bonita Removal/Gold King Mine	01-Aug-15	3
Photographer: Elliott Petri			
DAILY PHOTO LOG			

Photo 1



Back of the bulkhead location, minimal sludge is flowing from workings further back in the mine.

Photo 2



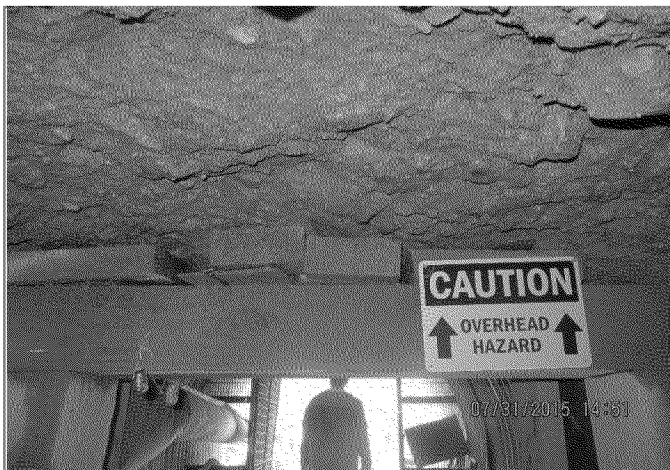
Low entry to the Red and Bonita, prior to safety signage.

Photo 3



Low entry to the Red and Bonita, safety signage and flasher light on the daylight side.

Photo 4



Low entry to the Red and Bonita, safety signage and flasher light on the in mine side.

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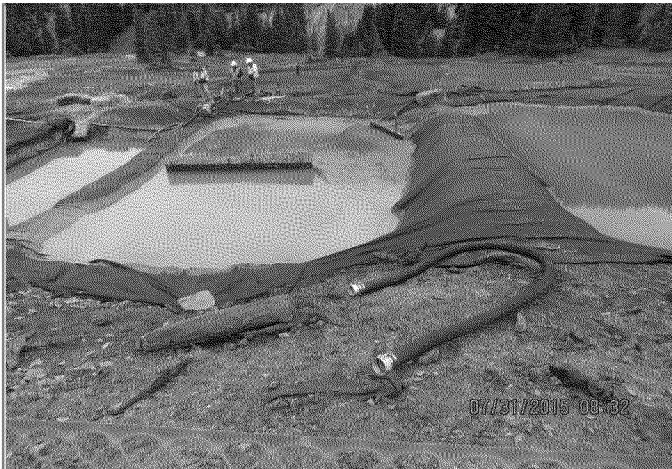
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Photo 5



Treatment Pond 1 is full and treatment Pond 2 is roughly at 40% of capacity.

Photo 6



Excavating above collapsed adit at the Gold King mine.

Photo 7



The Gold King start of filter bag manifold setup.

Photo 8

